Release Schedule 10/3/2008

North Central Delta Regional Salmon Outmigration Study Plan (48 days of closure between Nov 1 and Jan 31)

	OULE (A)				Sa	ac	(a) Sac	GS	Ryde	(b) Natural
Study		Day of	Time	Gate	Sa Re		Rel	Rel	Ryde	constraints
day	Date	Week	Block	Operation	Su		3D	IVEI	IVEI	Constraints
1	10-Nov	mon	Pilot	DCC 1/2 Open		41. V	05			Smolted?
2	10-Nov	tues	Pilot	DCC 1/2 Open	100 /	A B. 7	00 PM			Smolted?
3	12-Nov	wed	FIIOL		100 %	AIVI T	IOO FIVI			Smolted?
4	12-Nov	thur	1	DCC Open	DCC hydro transients settlii	ina tim	۵			Smolted?
5	13-Nov	fri	1	DCC Open	17		113			Smolted?
				•	17	13	113			Smolted?
6	15-Nov	sat	1	DCC Open				104	70	
7	16-Nov	sun	1	DCC Open	47	72	442	104	70	Smolted?
8	17-Nov	mon	1	DCC Open	17	13	113			Smolted?
9	18-Nov	tues	1	DCC Open			1			Smolted?
10	19-Nov	wed	1	DCC Open			2	104	69	Smolted?
11	20-Nov	thur	1	DCC Open			3		1	
12	21-Nov	fri	1	DCC Open			4		2	
13	22-Nov	sat	1	DCC Open			5		3	
14	23-Nov	sun	1	DCC Open			6		4	Smolted?
15	24-Nov	mon	1	DCC Open			7		5	Smolted?
16	25-Nov	tues	1	DCC Open	Thanksgiving Break		8		6	Smolted?
17	26-Nov	wed	1	DCC Open	Thanksgiving Break		9		7	
18	27-Nov	thur	1	DCC Open	Thanksgiving Break		10		8	Smolted?
19	28-Nov	fri	1	DCC Open	Thanksgiving Break		11		9	Smolted?
20	29-Nov	sat	1	Night Closure	DCC hydro transients settling	ing tim	е			Sweet Spot
21	30-Nov	sun	1	Night Closure	17		113			Sweet Spo
22	1-Dec	mon	1	Night Closure						Sweet Spor
23	2-Dec	tues	1	Night Closure				104	69	Sweet Spor
24	3-Dec	wed	1	Night Closure	17	73	113		•	Sweet Spor
25	4-Dec	thur	1	Night Closure		. •	1			Sweet Spo
26	5-Dec	fri	1	Night Closure			2	104	69	Sweet Spo
27	6-Dec	sat	1	Night Closure			3	104	1	Sweet Spo
28	7-Dec	sun	1	Night Closure			4		2	
29	8-Dec	mon	1	Night Closure			5		2	Sweet Spot
30	9-Dec		1	Night Closure			6		3	Sweet Spot
	10-Dec	tues	1	U			7		-	
31		wed		Night Closure					5	
32	11-Dec	thur	1	Night Closure			8		6	
33	12-Dec	fri	1	Night Closure	D001 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• ••	9		/	Sweet Spot
34	13-Dec	sat	2	DCC Open	DCC hydro transients settlii					Sweet Spot
35	14-Dec	sun	2	DCC Open	17	73	113			Sweet Spot
36	15-Dec	mon	2	DCC Open						Sweet Spot
37	16-Dec	tues	2	DCC Open				104	69	Sweet Spot
38	17-Dec	wed	2	DCC Open	17	73	113			Sweet Spot
39	18-Dec	thur	2	DCC Open			1			Sweet Spot
40	19-Dec	fri	2	DCC Open			2	104	69	Sweet Spor
41	20-Dec	sat	2	DCC Open			3		1	Sweet Spor
42	21-Dec	sun	2	DCC Open			4		2	Sweet Spor
43	22-Dec	mon	2	DCC Open			5		3	Sweet Spot
44	23-Dec	tues	2	DCC Open	Christmas Break		6		4	Sweet Spot
45	24-Dec	wed	2	DCC Open	Christmas Break		7		5	Sweet Spot
46	25-Dec	thur	2	DCC Open	Christmas Break		8		6	Sweet Spot
47	26-Dec	fri	2	DCC Open	Christmas Break		9		7	
48	27-Dec	sat	2	DCC Open	Christmas Break		10		8	
49	28-Dec	sun	2	DCC Open	Christmas Break		11		9	
50	29-Dec	mon	2		DCC hydro transients settlii	ing tim				Hydrology?
51	30-Dec	tues	2	Night Closure	17		113			Hydrology?
52	31-Dec	wed	2	Night Closure		-				Hydrology?
53	1-Jan	thur	2	Night Closure				104	69	Hydrology?
54	2-Jan	fri	2	Night Closure	17	73	113			Hydrology?
55	3-Jan	sat	2	Night Closure		. •	113			Hydrology?
56	4-Jan	sun	2	Night Closure			2	104	69	Hydrology?
57	5-Jan			Night Closure			3	104	4	
		mon	2						1	Hydrology?
58	6-Jan	tues	2	Night Closure			4			Hydrology?
59	7-Jan	wed	2	Night Closure			5			Hydrology?
60	8-Jan	thur	2	Night Closure			6			Hydrology?
61	9-Jan	fri	2	Night Closure			7			Hydrology?
62	10-Jan	sat	2	Night Closure			8			Hydrology?
63	11-Jan	sun	2	Night Closure			9		7	Hydrology?

SCHED	ULE (A)						(a)			(b)
						Sac	Sac	GS	Ryde	Natural
Study		Day of	Time	Gate		Rel	Rel	Rel	Rel	constraints
day	Date	Week	Block	Operation		Surv	3D			
64	12-Jan	mon	3	Gate Closed	DCC hydro transients se	ettling tin				
65	13-Jan	tues	3	Gate Closed		173	113			
66	14-Jan	wed	3	Gate Closed			1			
67	15-Jan	thur	3	Gate Closed			2	103	69	
68	16-Jan	fri	3	Gate Closed			3		1	
70	17-Jan	sat	3	Gate Closed		173	113		2	
71	18-Jan	sun	3	Gate Closed			1		3	
72	19-Jan	mon	3	Gate Closed			2	103	69	
73	20-Jan	tues	3	Gate Closed			3		1	
75	21-Jan	wed	3	Gate Closed			4		2	
76	22-Jan	thur	3	Gate Closed			5		3	
77	23-Jan	fri	3	Gate Closed			6		4	
78	24-Jan	sat	3	Gate Closed		172	113		5	
80	25-Jan	sun	3	Gate Closed			1		6	
81	26-Jan	mon	3	Gate Closed			2	103	69	
82	27-Jan	tues	3	Gate Closed			3		1	
83	28-Jan	wed	3	Gate Closed		172	113		2	
84	29-Jan	thur	3	Gate Closed			1		3	
85	30-Jan	fri	3	Gate Closed			2	103	69	
86	31-Jan	sat	3	Gate Closed			3		1	
87	1-Feb	sun	3	Gate Closed			4		2	
88	2-Feb	mon	3	Gate Closed			5		3	
89	3-Feb	tues	3	Gate Closed			6		4	
90	4-Feb	wed	3	Gate Closed			7		5	
91	5-Feb	thur	3	Gate Closed			8		6	
92	6-Feb	fri	3	Gate Closed			9		7	,
93	7-Feb	sat	3	Gate Closed			10		8	
94	8-Feb	sun	3	Gate Closed			11		9	
95	9-Feb	mon	3	Gate Closed			12		10	
96	10-Feb	tues	3	Gate Closed			13		11	
97	11-Feb	wed	3	Gate Closed			14		12	
98	12-Feb	thur	3	Gate Closed			15		13	
99	13-Feb	fri	3	Gate Closed			16		14	
100	14-Feb	sat	3	Gate Closed			17		15	

Notes:

- 1. From November 1 through January 31. Gates will be closed for a total of up to 45 days for fisheries protection.
- 2. From February 1 through May 20. Gates will be closed.
- 3. Fisheries folks (White, Oppenhimer, Green) agreed to "count" nighttime closure as full day closure at 9/22 meeting.
- 4. The majority of the winter run juveniles typically migrate past the vicinity of the DCC gates in late December (Alice Low)
- Minimum elapsed time for a given DCC operation 9 days.
 This is the Est. time for Sac released fish to "clear" north delta (into Cache SI.) and the Mokelumne system
 - (e.g. San Joaquin) at low Sacramento River flow rates
- 6. A day after each change in DCC gate position is needed for regional scale hydrodynamic transients to settle. (e.g. the system takes some time to reach steady state after the gates are moved.)
- 7. Ryde and Georgiana releases are offset by one day so that these fish are placed in the "same" water as the Sac release (e.g. assume ~1 day travel time from Sac to Walnut Grove)
- (a) SAC rel 3D Study fish are programmed at a higher ping rate for greater spatial resolution in junction experiments (drawback reduced tag life). 3D (2-5 sec) standard (5-10 sec)
- (b) Natural constraints:
 - (1) Smolted? Early in the year fish may not be fully smolted. Furthermore low turbidities, high water temperatures, very low flows may also confound results
 - (2) Hydrology? High flows may force closed operations.
 - (3) "Sweet" spot Refers to a operations with the highest probability of favorable conditions (e.g. fish fully smolted, favorable hydrology, turbidities and water temps. AND sac river < 25,000 cfs)